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FIGURE 1

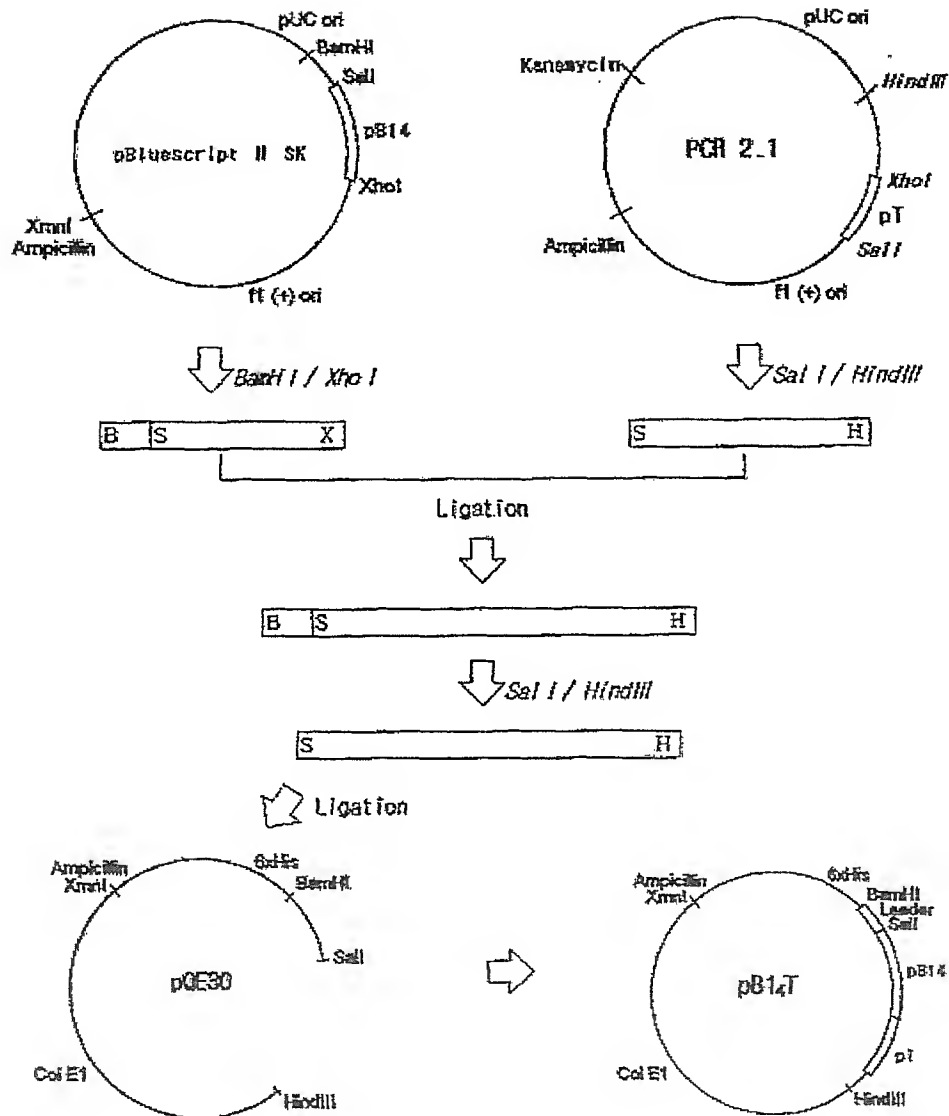


FIGURE 2

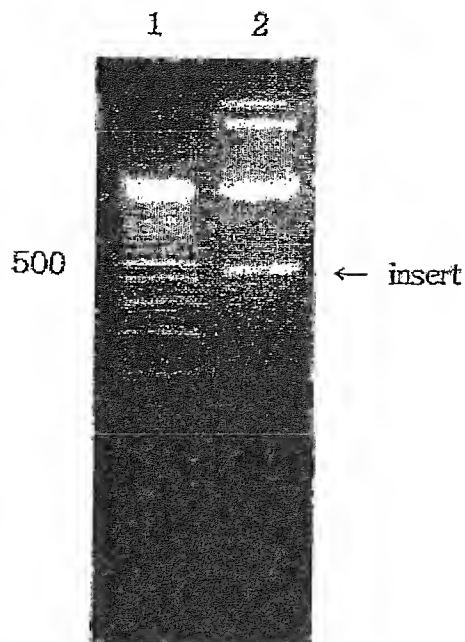


FIGURE 3

Start												6X His								PB1 _A											
Met	Arg	Gly	Ser	His	His	His	His	Ile	Ile	Gly	Ser	Asp	Asp	Asp	Asp	Lys	Ile	Val	Asp												
ATG	AGA	GGA	TGG	GAT	CAC	GAT	CAC	GAT	CAC	GGA	TCC	GAT	GAT	GAT	GAC	AAG	ATC	GTC	GAC												
Arg	Asn	Val	Pro	Pro	Ile	Phe	Asn	Asp	Val	Tyr	Trp	Ile	Ala	Phe	Leu	Asp	Arg	Asn	Val												
CGT	AAT	GTT	CCT	GCT	ATC	TTC	AAT	GAT	GTT	TAT	TGG	ATT	GCA	TTC	CTC	GAC	GGT	AAT	GTT												
Pro	Pro	Ile	Phe	Asn	Asp	Val	Tyr	Trp	Ile	Ala	Phe	Leu	Asp	Arg	Asn	Val	Pro	Pro	Ile												
CCT	CCT	ATC	TTC	AAT	GAT	GTT	TAT	TGG	ATT	GCA	TTC	CTC	GAC	CGT	AAT	GTT	CCT	CCT	ATC												
Phe	Asn	Asp	Val	Tyr	Trp	Ile	Ala	Phe	Leu	Asp	Arg	Asn	Val	Pro	Pro	Ile	Phe	Asn	Asp												
TTC	AAT	GAT	GTT	TAT	TGG	ATT	GCA	TTC	CTC	GAC	CGT	AAT	GTT	CGT	CCT	ATC	TTC	AAT	GAT												
Val	Tyr	Trp	Ile	Ala	Phe	Leu	Asp	PI Met	Gln	Trp	Asn	Ser	Thr	Thr	Phe	His	Gln	Ala	Leu												
GTT	TAT	TGG	ATT	GCA	TTC	CTC	GAC	ATG	CAG	TGG	AAC	TCC	ACC	ACA	TTC	CAC	CAA	GCT	GTG												
Leu	Asp	Pro	Arg	Val	Arg	Gly	Leu	Tyr	Phe	Pro	Ala	Gly	Gly	Ser	Ser	Ser	Gly	Thr	Val												
CTA	GAT	CCC	AGA	GTG	AGG	GGG	CTA	TAT	TTT	CCT	GCT	GGT	GGC	TCC	AGT	TGC	GGA	ACA	GTA												
Asn	Pro	Val	Pro	Thr	Thr	Ala	Ser	Pro	Ile	Ser	Ser	Ile	Phe	Ser	Arg	Thr	Gly	Asp	Pro												
AAC	CCT	GTT	CCG	ACT	ACT	GCC	TGA	CCG	ATA	TGG	TCA	ATC	TTC	TGG	AGG	ACT	GGG	GAC	CGT												
Ala	Pro	Asn	Leu	Glu	Arg	Ser	Stop													GCC	GAA	TTC	CAG	CAC	ACT	GGC	GGC	CGT	TAC	TAG	TGG
GCA	CGG	AAC	CTC	GAG	CGG	TGA	TAA																								
ATC CGA GGT CCG TAC CAA GCT																															

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FIGURE 4

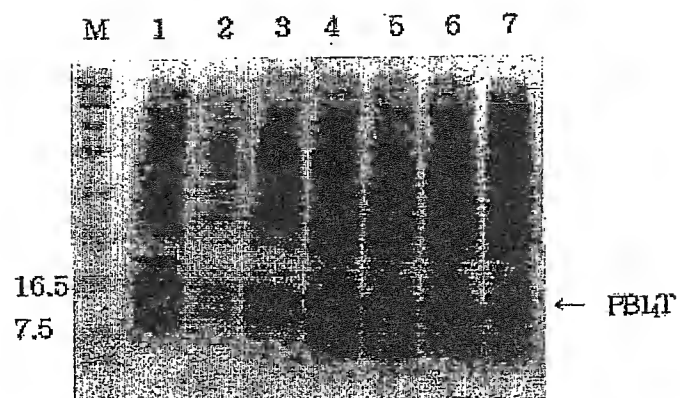
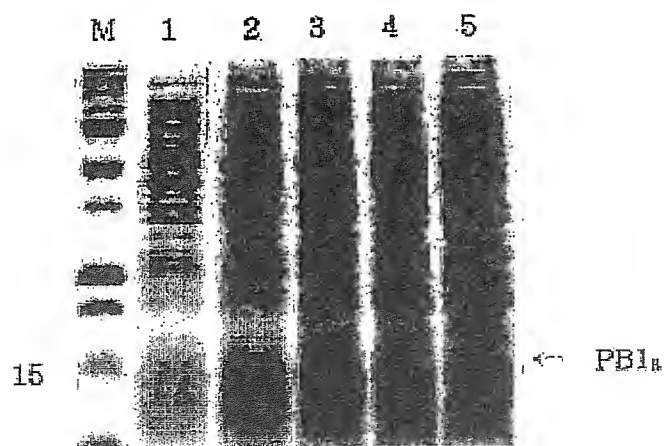


FIGURE 5



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FIGURE 6

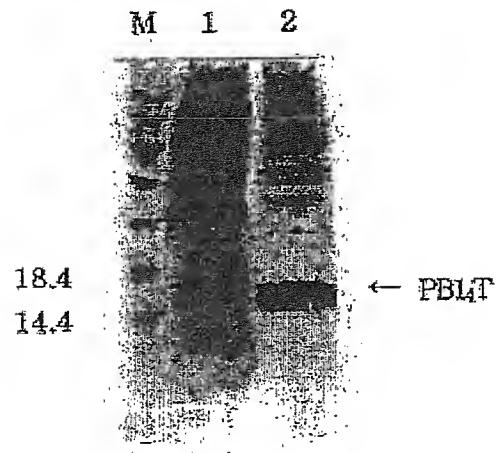
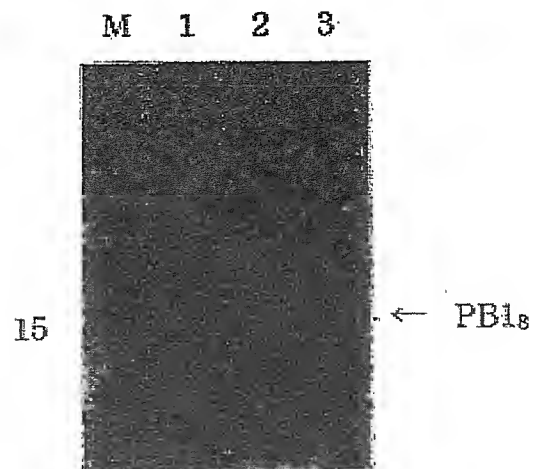


FIGURE 7



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FIGURE 8

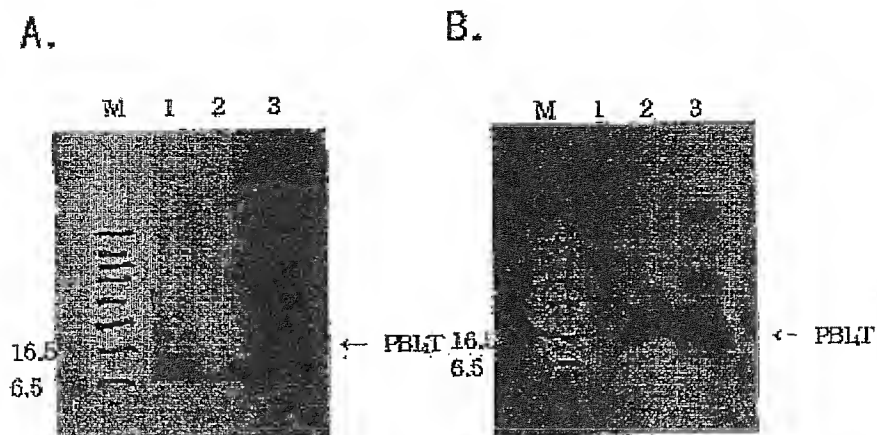
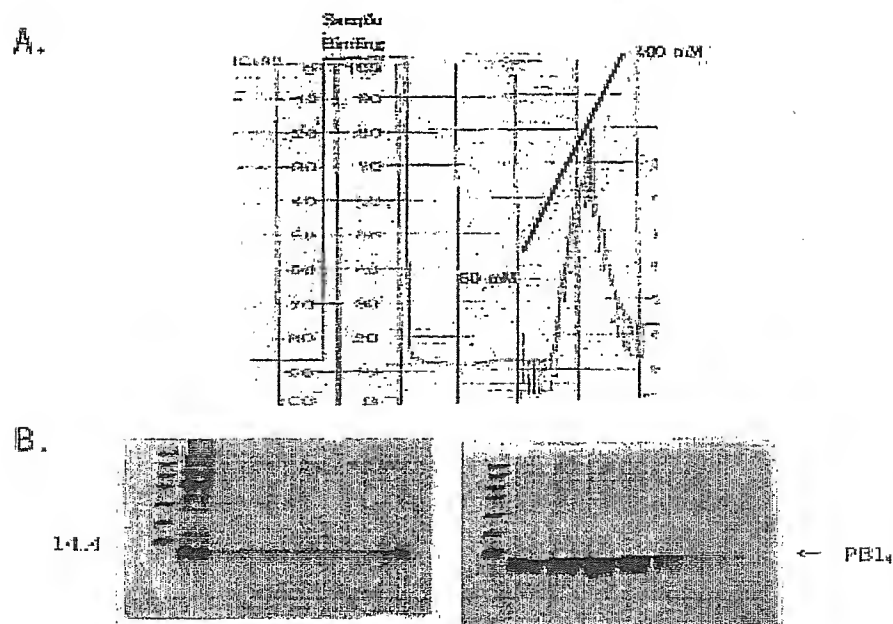


FIGURE 9



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FIGURE 10

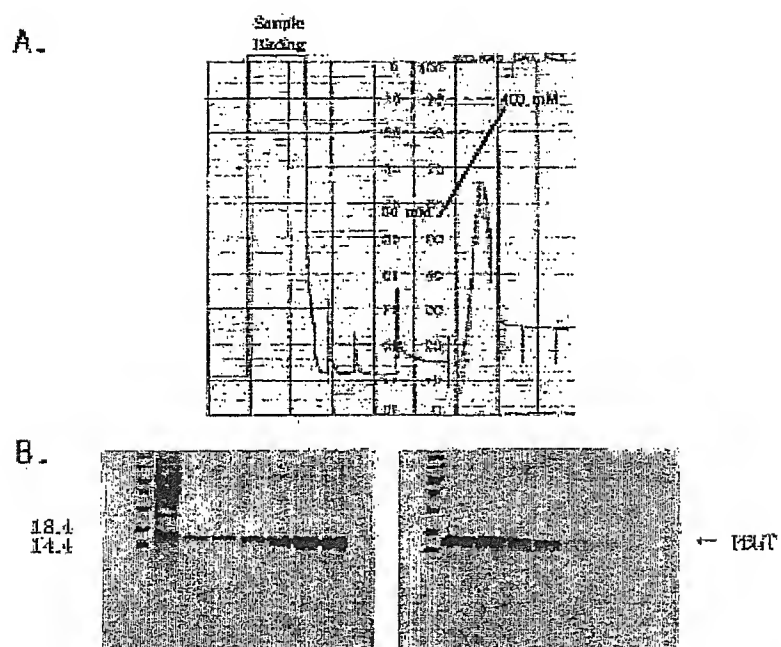
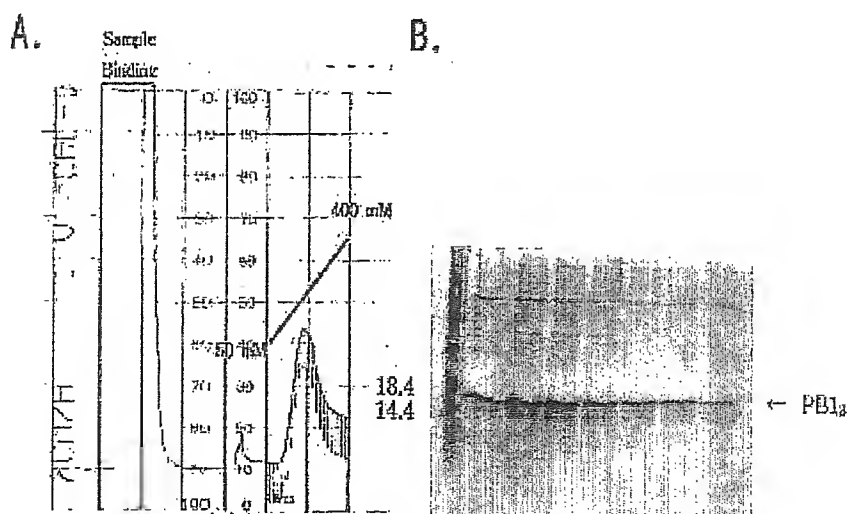
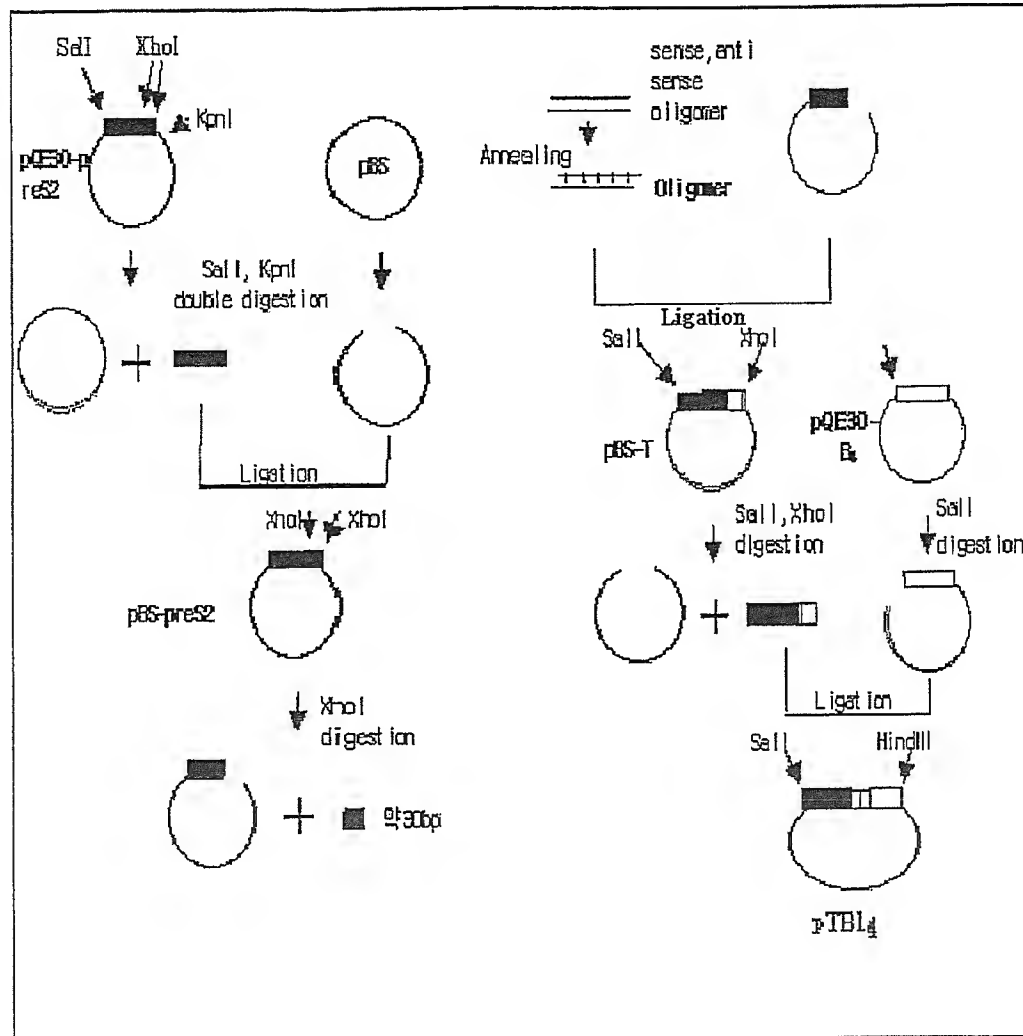


FIGURE 11



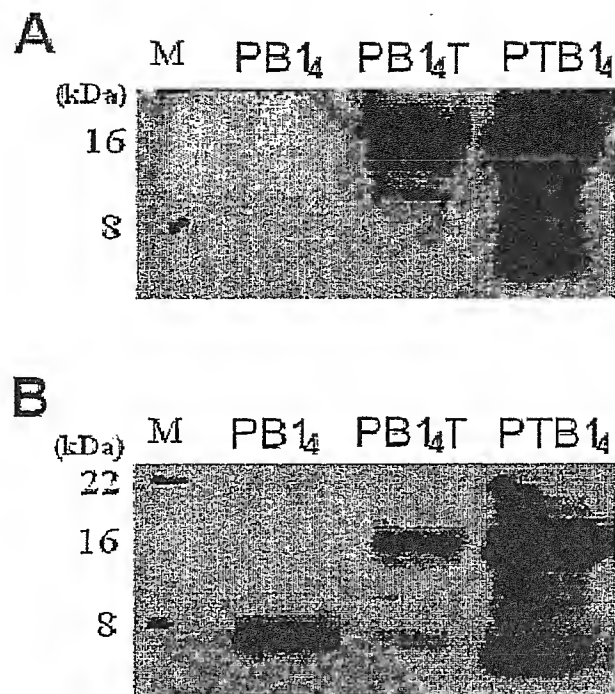
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FIGURE 12



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FIGURE 13



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FIGURE 14

Met Arg Gly Ser His His His His His His Gly Ser Asp Asp Asp Asp
 ATG AGA GGA TCG CAT CAC CAT CAC CAT CAC GGA TCC GAT GAT GAT GAC

His tag

Lys Ile Val Asp Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu
 AAG ATC GTC GAC ATG CAG TGG AAC TCC ACC ACA TTC CAC CAA GCT CTG

↳ *preS2*

Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser
CTA GAT CCC AGA GTG AGG GGC CTA TAT TTT CCT GCT GGT GGC TCC AGT

Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser
TOC GGA ACA GTA AAC CCT GTT CCG ACT ACT GCC TCA CCC ATA TCG

Ser Ile Phe Ser Lys Thy Gly Asp Pro Ala Pro Asn Leu Asp Arg
TCA ATC TTC TCG AAG ACT GGG GAC CCT GCA CCG AAC CTC GAC CGT

preS2 ↓ linker ↳

Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu
AAT GTT CCT CCT ATC TTC AAT GAT GTT TAT TGG ATT GCA TTC CTC

PB1 ↓ linker

Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala
GAC CGT AAT GTT CCT CCT ATC TTC AAT GAT GTT TAT TGG ATT GCA

↳ *PB1*

Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp
TTC CTC GAC CGT AAT GTT CCT CCT ATC TTCAAT GAT GTT TAT TGG

↓ linker ↳ *PB1*

Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val
ATT GCA TTC CTC GAC CGT AAT GTT CCT CCT ATC TTC AAT GAT GTT

↓ linker ↳ *PB1*

Tyr Trp Ile Ala Phe Stop
TAT TGG ATT GCA TTC TAA

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FIGURE 15

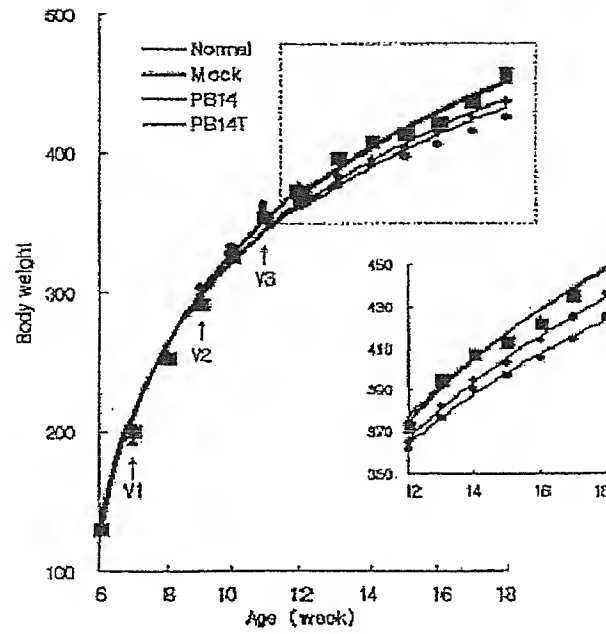
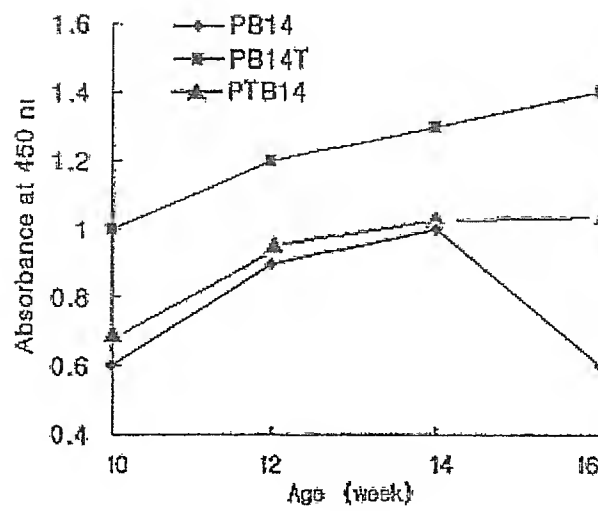


FIGURE 16



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FIGURE 17

